PIPELINE is a community newsletter published by the Lakeside Water District.

JUNE 2013

LAKESIDE'S WATER SUPPLY: PAST AND PRESENT

The way we receive our water has changed many times over the years. When Lakeside Water District was formed in 1924 as an Irrigation District, groundwater and a connection to the Cuyamaca Water Company were our only sources.

In the early 1940s, as the community expanded, Lakeside Water District teamed up with eight other agencies to form the San Diego County Water Authority (WA) which brought water from the Colorado River to the county. In the 1950s, Lakeside had a firm entitlement to imported water and its first large subdivision was developed in Eucalyptus Hills.

As the county and the community continued to grow, new ways to deliver water were implemented. Besides the connections to the WA we also had connections to the Helix Water District to aid in distribution. The water we were delivered was untreated and then chlorinated at our points of connection. This all changed in the mid-1970s when the water was filtered and chlorinated prior to delivery to the county.

Growth continued to boom thoughout the 60s, 70s and 80s, but a new factor came into play: drought. When we thought we had an unlimited supply of water we now had to consider the reality of limited supplies. After the rains of Miracle March in 1993 ended a severe drought, decisions were made by the WA to ensure that



The town of Lakeside, about 1910.

the county would diversify from importing 90% of our water from the Metropolitan Water District. A diversification plan was formulated that would maximize local sources, and look at new ways to distribute Colorado River water in California.

Established in 2003, the ground-breaking Quantification Settlement Agreement, allows the WA and the Imperial Irrigation District to receive water conserved through lining parts of the All-American and Coachella canals and farming conservation. In 2011, these agreements brought 160,000 acrefeet of water to the region. When the water deliveries are fully ramped up in 2021, San Diego County will receive 280,000 acre-feet per year.

To ensure the ability of the County to endure droughts and earthquakes, the WA implemented the Emergency Storage Project; a system of reservoirs, interconnected pipelines, and pumping stations designed to make water available in the event of an interruption of imported water deliveries. The cornerstone of the project right here in our own backyard is the San Vicente Lake Dam Raise, increasing capacity from 90,000 to 242,000 acre feet.

We have increased storage and designed a more reliable delivery system plus more improvements are currently in progress. The Carlsbad Desalination Project, a landmark 50 million-gallonsper-day reverse osmosis filtration plant that will turn seawater into high quality drinking water, is scheduled to come on line in 2017.

As can be expected, a more balanced and dependable water supply comes with a price, but be assured that Lakeside Water District will do everything possible to control these new costs.

LAKESIDE WATER DISTRICT CONSUMER CONFIDENCE REPORT

Test Results from Calendar Year 2012 (Este informe contiene informacion muy importante sobre su agua potable. Traduzcalo o hable con alguien que lo entienda bien.)

PARAMETERS	UNITS	STATE OR FEDERAL MCL [MRDL]	PHG (MCLG) [MRDLG]	STATE DLR	RANGE AVERAGE	LAKESIDE WELLS	HELIX PLANT	SKINNER PLANTS	
Percent State					Range	NA	6-52%	33-84%	
Project Water	% RDS: Mandaton: Ho	NA National Standard	NA 	NA	Average	NA	20 %	63%	
CLARITY:	RDS: Mandatory He	aith-reiated Standa	irus						MAJOR SOURCES IN DRINKING WATER:
Combined Filter	NTU	0.3			Highest	.19	.16	.06	
Effluent Turbidity	%	95 (a)	NA	NA	% < 0.35	100 %	100%	100%	Soil runoff
MICROBIOLOGICAL:									
Total Coliform	Distribution System-wide		(0)		Range	ND	ND	ND05	No. II. and a second
Bacteria (b)	%	5.0	(0)	NA	Average	ND 0.0	ND	.01	Naturally present in the environment
E. coli	Distribution System-wide (c)	(c)	(0)	NA	Range Average	0.0 ND	0.0 ND	0.0 ND	Human and animal fecal waste
INORGANIC CHEMICALS:	(c)	(C)	(0)	INA	Avelage	NU	ND	ND	Truman and anima recar waste
					Range	ND-67.1	81-85	ND	Residue from water treatment process; natural deposits erosion
Aluminum (d)	ppb	1000	600	50	Highest RAA	16.8	83	ND	' '
					Range	ND-1.78	ND	ND	Natural deposits erosion; glass and electronics production wastes
Arsenic	ppb	10	0.004	2	Highest RAA	0.75	ND	ND	
					Range	124-295	NT	ND	Oil and metal refineries discharge; natural deposits erosion
Barium	ppb	1000	2000	100	Average	208	NT	ND 07.13	West Person
Flouride (e) Treatment-related	ppm	2.0	1	0.1	Control Range Optimal Level		0.7-1.3 0.8	0.7-1.3	Water additive
ncaunent-reidleu					Range	.06-1.0	.0709	0.8 0.7-0.9	Lakeside has (naturally occurring) Flouride from erosion of natural deposits
					Average	0.7	0.8	0.7-0.9	Canada in a character of the control
					Range	.0055	ND21	ND	1
Nitrate (as N)	ppm	10	10	0.4	Highest RAA	.016	.21	ND	Runoff/leaching from fertilizer use; septic tank/sewage; natural deposits erosion
RADIOLOGICALS:									
Gross Alpha					Range	4.36-8.06	ND-4.5	ND-3	
Particle Activity	pCi/L	15	(0)	3	Average	6.7	ND	ND	Erosion of natural deposits
Gross Beta	-C:/l	F0	(0)		Range	ND	ND	ND-5	Down of noticed and many model downsite
Particle Activity (f)	pCi/L	50	(0)	4	Average Range	ND 4.5-6.7	ND-1	ND-2	Decay of natural and man-made deposits
Uranium	pCi/L	20	0.43	1	Average	5.8	1 1	1	Erosion of natural deposits
	PRODUCTS, DISINFE								Liosion of natural acposits
Total Trihalomethanes		Distribution System-wide	,		Range	19-69	20-51	10-19	
(TTHM) (g)	ppb	80	NA	1	Average	38.8	46.5	14	By-product of drinking water chlorination
Haloacetic Acids (five)		Distribution System-wide			Range	ND-15	4.2-18.3	1.4-6.1	
(HAA5) (g)	ppb	60	NA	1	Average	7.5	10.1	2.7	By-product of drinking water chlorination
		Distribution System-wide			Range	1.4-1.9	0.1-3.0		
Total Chlorine Residual	ppm	[4.0]	[4.0]	NA	RAA	1.68	1.8	TT	Drinking water disinfectant added for treatment
DBP Precursors Control (TOC)	nnm	π	NA	0.30	Range Average	NA NA	TT TT	TT TT	Various natural and man-made sources
_ , ,	ppm DARDS: Aesthetic St		IVA	0.30	Avelage	INA	- 11	11	Valious flatulai and filati-filade sources
520011571111 517111	DANIE DI ACSTRICTIC DI	unuunus			Range	ND-67.1	130-260	ND	Residue from water treatment process; natural deposits erosion
Aluminum (d)	ppb	200	NA	50	Highest RAA	16.8	165	ND	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
					Range	197-291	75-95	75-77	Runoff and leaching from natural deposits; seawater influuence
Chloride	ppm	500	NA	NA	Highest RAA	236	87	76	
					Range	ND-1.0	1-2	1-2	
Color	Units	15	NA	NA	Highest RAA	<1.0	1	1 224	Naturally occurring organic materials
Odor Threshold (h)	TON	3	NA	NA	Range	ND-1.0	1 1	3-24	Naturally occurring organic materials
Odor Hireshold (II)	IUN	3	NA	NA	Average Range	<1.0 1030-1770	510-840	2 440-780	Substances that form ions in water; seawater influeenice
Specific Conductance	μS/cm	1600	NA	NA	Highest RAA	1562	713	640	Substances that form foris in water, scawater innacenice
	b=11				Range	213-285	130-180	96-120	. Runoff and leaching from natural deposits; industrial wastes
Sulfate	ppm	500	NA	0.5	Highest RAA	237	160	110	
Total Dissolved Solids	•				Range	772-1101	320-410	360-400	Runoff and leaching from natural deposits; seawater influence
(TDS)	ppm	1000	NA	NA	Highest RAA	906	365	380	
T 1:10: ()		-		.,.	Range	.0310		ND1	6 11
Turbidity (a)	NTU CONTAMINANTS MONITOR	5 INC DILLE (LICMD2) (3).	NA	NA	Highest RAA	.06	.16	ND	Soil runoff
List 1 - Assessment Monit	CONTAMINANTS MONITOR	ING RULE (UCMK2) (I):				ND	ND	ND	
List 1 - Assessment World List 2 - Screening Survey	unig					ND ND	ND ND	ND ND	
OTHER PARAMETE	RS					110	110	110	1
CHEMICAL:									1
					Range	191-300	94-160	75-110	1
Alkalinity	ppm	NA	NA	NA	Highest RAA	230	120	93	
					Range	68.7-91.4	140	130	Runoff and leaching from natural deposits; industrial wastes
Boron	ppb	NA	NL=1000	100	Highest RAA	75.4	140	130	
C.L.		***			Range	105-144	47-54	34-41	
Calcium	ppm	NA	NA	NA	Highest RAA	123	51	38	D. and a file line was 11 to 20 to 10 to 11
Chlorato	nnh	NA	NI - 000	20	Range	NA NA	NA NA	ND-80	By-product of drinking water chlorination; industrial processes
Chlorate	ppb	NA	NL= 800	20	Range Range	NA ND	NA ND	50 ND	 Industrial waste discharge; could be naturally present as well
Chromium VI (j)	ppb	NA	NA	1	Kange Highest RAA	ND ND	ND ND	ND ND	maasaan waste aistiiaiye, toula be hatulahy piesellt as well
	hhn	INA	INA						
Corrosivity (k)					Range	12.0-12.5	NA	12.2-12.3	Elemental balance in water; affected by temperature and other factors

(as Aggressiveness Index)	AI	NA	NA	NA	Average	12.1	NA	12.2	
					Range	515-700	200-240	120-220	_
Hardness	ppm	NA	NA	NA	Highest RAA	609	220	170	Municipal and industrial waste discharges
					Range	54-66	19-24	15-17	
Magnesium	ppm	NA	NA	NA	Highest RAA	61	22	16	
	рН				Range	6.9-7.2	8.1-8.4	8.1-8.5	_
рН	Units	NA	NA	NA	Average	7.03	8.2	8.3	
					Range	NA	3.8-4.6	3.4-3.6	_
Potassium	ppm	NA	NA	NA	Highest RAA	NA	4.3	3.5	
					Range	109-141	70-86	65-66	_
Sodium	ppm	NA	NA	NA	Highest RAA	129	78	66	
					Range	NA	1.7-3.3	1.8-2.3	_
TOC	ppm	TT	NA	0.30	Highest RAA	NA	2.3	2.1	Various natural and man-made sources
					Range	ND-19	3.2-3.4	ND	_
Vanadium	ppb	NA	NL=50	3	Average	8	3.3	ND	Naturally-occurring; industrial waste discharge
N-Nitrosodimethylamine					Range	NA	ND003	ND-2.8	By-product of drinking water chloramination; industrial processes
(NDMA)	ppt	NA	3	2	Range	NA	ND	ND-6.7	Industrial processes

LEAD AND COPPER TESTING: Number of Sample Sites = 30. The 90th Percentile Levels = ND for Lead and .13 ppm for Copper. Number of sites above action level of 15 ppb Lead and 1.3 ppm Copper = 0. Lead and Copper tested for in June 2010.

ABBREVIATIONS AND FOOTNOTES

ABBREVIATIONS	NTU Nephelometric Turbidity Units
Al Aggressiveness Index	P or ND Positive or Not Detected
AL Action Level	pCi/LpicoCuries per Liter
CFUColony-Forming Units	PHGPublic Health Goal
DBP Disinfection By-Products	ppb parts per million or micrograms liter (μg/L)
DLR Detection Limits for Reporting	ppm parts per million or milligrams per lieter (mg/L)
MCL Maximum Contaminant Level	ppq parts per quadrillion or picograms per liter (pg/L)
MCLG Maximum Contaminant Level Goal	ppt parts per trillion or nanograms per liter (ng/L)
MRDL Maximum Residual Disinfectant Level	RAA Running Annual Average
MRDLG Maximum Residual Disinfectant Level Goal	SISaturation Index (Langelier)
N Nitrogen	TOCTotal Organic Carbon
NA Not Applicable	TON Threshold Odor Number
ND Not Detected	TTTreatment Technique
NL Notification Level	μS/cm microSiemen per centimeter or micromho per centimeter (μmho/cm)

FOOTNOTES

- (a) The turbidity level of the filtered water shall be less than or equal to 0.3 NTU in 95% of the measurements taken each month and shall not exceed 1 NTU at any time. Turbidity is a measure of the cloudiness of the water and is an indicator of treatment performance. The averages and ranges of turbidity shown in the Secondary Standards were based on the treatment plant effluent.
- (b) Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform-positive.
- (c) E. coli MCL: The occurrence of two consecutive total coliform-positive samples, one of which contains E. coli, constitutes an acute MCL violation. The MCL was not violated.
- (d) Aluminum has both primary and secondary standards.
- (e) MWD, Helix and Lakeside were in compliance with all provisions of the State's Fluoridation System Requirements.
- (f) The gross beta particle activity MCL is 4 millirem/year annual dose equivalent to the total body or any internal organ. The screening level is 50 pCi/L.
- (g) MWD, Helix, and Lakeside were in compliance with all provisions of the Stage 1 Disinfectants/Disinfection By-Products (D/DBP) Rule. Compliance was based on the RAA.
- (h) Metropolitan utilizes a flavor-profile analysis method that can detect odor occurrences more accurately.
- (i) Helix data collected over four quarters in 2008. MWD Data collected in November 2008.
- (j) Chromium VI reporting level is 0.03 ppb.
- (k) Al <10.0 = Highly aggressive and very corrosive water. Al >12.0 = Non-aggressive water. Al (10.0 11.9) = Moderately aggressive water.

LAKESIDE WATER DISTRICT (619) 443-3805

BOARD OF DIRECTORS President: Bruce Robertson Vice President: Frank Hilliker

Directors:

Pete Jenkins Steve Johnson Eileen Neumeister

General Manager:

Brett Sanders

Our Board meets at the District office on the first Tuesday of each month at 5:30 p.m.

Bill Payment Options

Online: Credit card and electronic check payments may be paid online at www.lakesidewaterdistrict.com.

Autopay: Pay automatically from your checking account. Sign up online www.lakesidewaterdistrict.com.

By Phone: Credit card or electronic check payments may be placed using our automated phone system by calling (619) 443-3805, extension 3.

Drop Box: Payments may be placed in the black drop box in front of the office.

In Person: Cash payments may be paid in our office on business days, between 8:00am and 5:00pm.

With each method, you will need your account number as it appears on your bill.

CONSUMER CONFIDENCE REPORT: Educational Information

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Lakeside Water District's groundwater source is the Santee-El Monte Basin, a groundwater source for many in our community. The basin provides good water quality that has small amounts of iron and manganese which we remove with a specially designed treatment plant located at our Administration and Operations facility at 10375 Vine Street, Lakeside. A source water assessment detailing potential sources of contamination completed in January 2010 is available for review upon request at the District office.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, that can be naturallyoccurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Lakeside Water District is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Drinking Hotline or by visiting the government site: www.epa.gov/safe water/lead.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activates.

In order to ensure that tap water is safe to drink, USEPA and the California Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water posses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791. If you should have any questions about the CCR or water quality in general, please call Lakeside Water District at 619-443-3805.

) & Squirt Let me explain... Wow! Southern California gets most of its water from just one source: the Colorado River! This water Complicated? business is sure Water comes complicated. That could become a right out of big problem. the hose! THEBAY DELTAISSUE
DELTAISSUE
TWIN PIPES? Delta Smelt! Controversiall Expensive! Desalination will be I'm glad we live in the a new water source for Lakeside Water District. San Diego. It costs a little more, but it will They keep things simple! diversify our supply Lakeside pumps local groundwater to LOCAL! keep costs low for their customers!

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10375 Vine Street Lakeside, CA 92040-2440